

CLAIM AMENDMENTS

1. (Cancel) A light source comprising:
a solid heat conductive plate having a first side and a second side;
a plurality of LEDs supported on the first side of the plate;
electrical circuitry supported on a side of the plate providing electrical connection to the LEDs; and
a heat conductive stem extending transversely to the plate and supporting the plate.
2. (Cancel) The light source in claim 1, wherein the heat conductive plate includes a beveled radial face supporting at least one LED.
3. (Cancel) The light source in claim 1, wherein the heat conductive plate includes at least one tab supporting at least one LED.
4. (Cancel) The light source in claim 3, wherein the at least one tab has a planar face forming a fixed angle with respect to a plane transverse to an axis of the stem, thereby generally directing light from the supported at least one LED an angle away from the stem.
5. (Cancel) The light source in claim 1, wherein the light source has a forward direction extending axially away from the plate, and a majority of the LEDs are supported on the plate to face substantially away from the forward direction.
6. (Cancel) The light source in claim 5, wherein the majority of the LEDs are not directly visible from an axial view, opposite the forward direction.

7. (Cancel) The light source in claim 1, wherein the electrical circuitry provides at least one series connection between at least one group of the LEDs.
8. (Cancel) The light source in claim 1, wherein the electrical circuitry includes deposited circuit lines supported by the plate.
9. (Cancel) The light source in claim 1, wherein the electrical circuitry includes;
10. (Cancel) The light source in claim 1, wherein the heat conductive stem supporting the plate provides at least one channel for electrical connection to the electrical circuitry.
11. (Cancel) The light source in claim 1, wherein the heat conductive stem supporting the plate provides a reflective surface for reflecting light generated by the LEDs.
12. (Currently amended) ~~The light source in claim 1,~~
A light source comprising:
a solid heat conductive plate having a first side and a second side;
a plurality of LEDs supported on the first side of the plate;
electrical circuitry supported on a side of the plate providing electrical connection to the LEDs; and
a heat conductive stem extending transversely to the plate and supporting the plate
wherein the heat conductive stem supporting the plate in combination with the plate define at least one recess surrounding at least one LED having a surface wall generally facing the LED and reflecting light from the recess.
13. (Cancel) An LED lamp assembly comprising a plurality of LEDs mounted on the first side of a solid plate having a first side and a second side, the plate supporting

electrical circuitry on a side of the plate, the circuitry electrically connecting the LEDs,

a thermally conductive stem extending transverse to the plate, mechanically supporting the plate and providing a thermally conductive path from the plate;
a heat dissipating skirt coupled to the stem, the stem and skirt providing an internal electrical passage for electrical leads coupled to the electrical circuitry where the exterior surface of the stem includes a light reflective surface.

14. (Currently amended) The LED lamp in claim 13, wherein electrically insulating guides with progressively narrower diameters guide the leads in the stem.
15. (Cancel) The LED lamp in claim 13, wherein the skirt is mechanically coupled to the back of a reflector.
16. (Cancel) The LED lamp in claim 13, wherein the exterior optical surface of the stem directs light from the LEDs to a reflector.
17. (Cancel) The LED lamp in claim 13, wherein the exterior optical surface of the stem diffuses light from the LEDs hereby breaking up the image of the LEDs.
18. (Cancel) The LED lamp in claim 13, wherein the exterior optical surface of the stem absorbs light from the LEDs hereby limiting uncontrolled light emission.
19. (Cancel) A light source comprising:
a heat conductive stem having an axis, the stem extending axially from a base end to a distal end, and having at least one axially extending through passage;
a solid, heat conductive plate having a first side and a second side; the plate being mounted on the distal end of the stem with the first side facing towards the base end; the plate extending transversely to the axis, the plate having a greater radial

extension than a radial extension of the stem adjacent the mounting to the plate
whereby the radial periphery of the plate overhangs the stem;
a plurality of LEDs supported on the first side of the plate along the radial
periphery of the first side;
electrical circuitry supported on a side of the plate providing electrical connection
to the LEDs; and
at least one electrical lead extended through the through passage and electrically
coupled to the circuitry supported on the plate.

20. (Cancel) The lamp in claim 19 having a cap covering the second side of the plate.

21. (Currently amended) ~~The lamp in claim 20~~

A light source comprising:

a heat conductive stem having an axis, the stem extending axially from a base end
to a distal end, and having at least one axially extending through passage;

a solid, heat conductive plate having a first side and a second side; the plate being
mounted on the distal end of the stem with the first side facing towards the base
end; the plate extending transversely to the axis, the plate having a greater radial
extension than a radial extension of the stem adjacent the mounting to the plate
whereby the radial periphery of the plate overhangs the stem;

a plurality of LEDs supported on the first side of the plate along the radial
periphery of the first side;

electrical circuitry supported on a side of the plate providing electrical connection
to the LEDs;

at least one electrical lead extended through the through passage and electrically
coupled to the circuitry supported on the plate; and

having a cap covering the second side of the plate;

wherein the cap is coupled through a passage in the plate to the stem thereby
retaining plate between the stem and the cap.

22. (Currently amended) ~~The lamp in claim 19~~
A light source comprising:
a heat conductive stem having an axis, the stem extending axially from a base end to a distal end, and having at least one axially extending through passage;
a solid, heat conductive plate having a first side and a second side; the plate being mounted on the distal end of the stem with the first side facing towards the base end; the plate extending transversely to the axis, the plate having a greater radial extension than a radial extension of the stem adjacent the mounting to the plate whereby the radial periphery of the plate overhangs the stem;
a plurality of LEDs supported on the first side of the plate along the radial periphery of the first side;
electrical circuitry supported on a side of the plate providing electrical connection to the LEDs; and
at least one electrical lead extended through the through passage and electrically coupled to the circuitry supported on the plate;
wherein at least one electrically insulating guide with a progressively narrower diameter guides the at least one lead in the stem.
23. (Cancel) The lamp in claim 19 having a heat dispersing structure extending from the base end of the stem.
24. (Cancel) The lamp in claim 19 wherein the plate includes at least one tab extending from an edge of the plate, the tab supporting at least one LED, and the tab being bent at an angle with respect to the plate to direct light emitted by the LED away from the axis.

CLAIM STATUS:

Claims 1 - 11: (Cancelled)

Claim 12: (Currently amended)

Claim 13: (Cancelled)

Claim 14: (Currently amended)

Claims 15- 20: (Cancelled)

Claims 21- 22: (Currently amended)

Claims 23- 24: (Cancelled)